

*M Taylor*

*Mexico Field Exp  
Separate folder  
ERT*

USDA Animal & Plant Health Inspection Service  
Veterinary Services  
Screwworm Eradication Program  
P. O. Box 969  
MISSION, TEXAS 78572

Subject: Report for Week Ending  
April 20, 1974

April 23, 1974

To: Regional Director - South Central Region  
APHIS, VS, USDA  
Hyattsville, Maryland

291,997,200 sterile flies were released this week with Texas receiving 113,582,400; Arizona 9,554,000; California 270,000; and Mexico 108,190,800. In addition, 14,448,000 sterile pupae were sent to Puerto Rico via Air Force Reserve plane. Flies released in Mexico by states were:

|            |            |
|------------|------------|
| Tamaulipas | 24,699,000 |
| Nuevo Leon | 26,460,000 |
| Cochula    | 32,083,200 |
| Sonora     | 24,948,000 |

126 larval samples were received in our laboratory for identification, 39 of which were confirmed to be positive screwworm cases. Texas had 36, Arizona 2 and California one. Twenty counties reported positive cases in Texas, five new counties for the year. These five were Jackson, Llano, Presidio, Terrell and Victoria.

Although scattered cases continue in most south Texas counties and new counties show up almost every day, as yet no buildup is apparent in any particular location with the exception of Webb and Zapata Counties. We are watching this area very closely as Webb County has logged a total of 43 cases through today and Zapata 15.

The general situation is encouraging, however, as we have had general rain and thunderstorms over most of this part of Texas with the passage of weather fronts during the past two weeks, making the climate conducive to screwworm activity.

RECEIVED  
APR 25 1974  
AREA OFFICE  
WESLACO, TEXAS



State Health Inspection Service

Sanitation Program

1952

Report on the

Sanitation Program

Sanitation Program

The following information was obtained from the records of the State Health Inspection Service, Sanitation Program, for the year 1952.

Sanitation Program  
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making the climate conducive to burrowing activity.

RECEIVED

ARLINGTON  
ARLINGTON, TEXAS



Dr. Novy is still on detail with the Newcastle Task Force in El Paso, Texas, but Don Nielson and Joe Smithy have returned.

Final plans are being made for the technical meeting scheduled for May 1 at this station.

24,040 liters of pupae were irradiated this week; 18 pilots flew a total of 301:05 hours. The fly releases broke all previous records for numbers, with production holding fairly steady at this high mark. The entire plant is on nutria as the rearing medium, and continuing releases of over 200 million are predicted.

H. E. Meadows, Jr.  
Veterinarian in Charge  
Animal Health

3 Enclosures  
Unit Reports

cc:  
Dr. Williams  
Dr. Meyer  
Dr. Sorenson  
Dr. Snow  
Dr. Cox  
Dr. Sibley  
~~Mr. Taylor~~  
Mr. Fisher

Mr. May is still in doubt as to whether to go to the  
 West Coast, and Mr. May has not yet decided.

There is a possibility that the situation may be  
 different in the future.

It is not known if any of the people who were  
 involved in the case are still in the country.  
 The situation is still very uncertain.  
 The situation is still very uncertain.  
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 West Coast, and Mr. May has not yet decided.

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UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

VETERINARY SERVICES  
SCREWORM ERADICATION PROGRAM  
POST OFFICE BOX 969  
MISSION, TEXAS 78572

Subject: Weekly Activity Report  
April 12 - April 18, 1974

April 24, 1974

To: Dr. M. E. Meadows, Jr.  
Veterinarian in Charge  
Animal Health

Mexico Field Experiment

General Plan:

Produced weekly will be three separate groups of flies for experimental use in Mexico. Three zones, A, B, and C north to south respectively, already have been established. Each zone is 40 x 50 miles (2,000 square miles) and each will receive 2 million flies once weekly at a rate of 1,000 flies per square mile. Pupae will be packaged (and dyed) at 1,000 per box.

Two groups of flies will consist of the routine production strain, "Tex-Mex". These will be dispersed into the northernmost (Zone A) and southernmost (Zone C) experimental areas. The third group of flies will be a new strain, "FF8", which is to be dispersed into Zone B.

Schedule:

Flies will be dispersed from aircraft three days after they have been irradiated in order to allow maximum pre-release emergence of adults while minimizing damaging effects of activity while confined to boxes.

The first experimental release will be of Tex-Mex flies into Zone A. The following day Tex-Mex should be dispersed into Zone C. Zone B, to receive the FF8 flies, will be dealt with one day after Zone C. A four-day interval will pass before the sequence is repeated, and subsequent dispersals will continue weekly throughout June and July.

The first round of releases probably will occur in mid-May and this depends on the availability of sufficient FF8 eggs.





The schedule given is, of course, only a tentative one, and it is hoped those involved will offer suggestions for its improvement. "Day 0", in the schedule to follow, refers to the day pupae are irradiated and delivered to Packaging Section.

*Elliot S. Krafsur By H.C. Hume*

Elliot S. Krafsur, PhD.  
Entomologist  
Methods Development  
Animal Health

Enclosures

Quality Control Data  
Larvae Weight Data  
Task Schedule  
Schedule Sequence





| <u>Schedule</u> | <u>Tasks</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>Responsibility</u>                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Day 0           | <p><u>FF8 strain</u>: 5½ day old pupae for irradiation will be available over a 16 hour time span. Peak pupation to be timed for shift C. Special precautions necessary to avoid mistaking FF8 for TexMex.</p> <p>Pupae irradiated in Co<sup>60</sup> (to prevent mixing with TexMex).</p> <p>Irr. canisters received by packaging, pupae held in well labeled trays to avoid mixing with production pupae.</p> <p><u>TexMex strain</u>: To be obtained from routine production material. Pupae to be used for experiment are to be labeled when received, and must have the same age distribution as FF8.</p> | <p>Plant</p> <p>Radiation Unit</p> <p>Packaging</p> <p>Packaging</p>           |
| Day 1           | <p>10 samples, each of 100cc of pupae taken in early morning.</p> <p><u>FF8 strain</u>: Pupae boxed (1,000/box) and dyed in early morning.</p> <p><u>TexMex strain</u>: Pupae for boxing (1,000/box) and dyeing to be selected from trays representing 8-16 hour time span of pupation.</p>                                                                                                                                                                                                                                                                                                                    | <p>Quality Control</p> <p>Packaging &amp; M.D.</p> <p>Packaging &amp; M.D.</p> |
| Day 2           | <p>In the late afternoon 2,000 boxes of TexMex loaded and flown to Poza Rica (Zone C). Chill in Poza Rica.</p> <p>In late afternoon 2,000 boxes of TexMex for Zone A or FF8 for Zone B placed in chill.</p>                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Distribution</p> <p>Distribution</p>                                        |





PROPOSED SCHEDULE SEQUENCE

| <u>Zone A</u> | (El Temescal) | TexMex strain |
|---------------|---------------|---------------|
| Day 0         | Sunday        | Irradiate     |
| Day 1         | Monday        | Package       |
| Day 2         | Tuesday       | Hold          |
| Day 3         | Wednesday     | Distribute    |
| Day 4         | Thursday      | Plane return  |

| <u>Zone C</u> | (Tuxpan-Poza Rica) | TexMex strain |
|---------------|--------------------|---------------|
| Day 0         | Monday             | Irradiate     |
| Day 1         | Tuesday            | Package       |
| Day 2         | Wednesday          | To Poza Rica  |
| Day 3         | Thursday           | Distribute    |
| Day 4         | Friday             | Plane return  |

| <u>Zone B</u> | (Soto La Marina) | FF8 strain   |
|---------------|------------------|--------------|
| Day 0         | Tuesday          | Irradiate    |
| Day 1         | Wednesday        | Package      |
| Day 2         | Thursday         | Hold         |
| Day 3         | Friday           | Distribute   |
| Day 4         | Saturday         | Plane return |





WEEKLY QUALITY CONTROL DATA - WEEK ENDING April 20, 1974

Flight - Two release cartons from every flight.

Control - Held at station and compared with those flown.

Sterility - Irradiated flies from each cobalt source egged when 6 to 7 days old.

Longevity - After flight from station held at 80° F. with food and water.

|           | <u>Station</u> | <u>Report Period</u> |      | <u>No. Flights</u> | <u>% Dead At Rel</u> | <u>% Emerg Aft Rel</u> | <u>Live Flies Held Per Carton</u> | <u>% Emerg</u> | <u>% Mort. Aft 7 days</u> | <u>Eggs Layed</u> | <u>Eggs Hatched</u> |
|-----------|----------------|----------------------|------|--------------------|----------------------|------------------------|-----------------------------------|----------------|---------------------------|-------------------|---------------------|
| C-45      | MISSION        |                      |      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                | 4-14                 | 4-20 | 33                 | .47                  | .61                    | 1902                              | 96.51          |                           |                   |                     |
| Control   |                | "                    | "    |                    | .26                  | 3.02                   | 1900                              | 96.66          |                           |                   |                     |
| CESIUM    |                |                      |      |                    |                      |                        |                                   |                |                           |                   |                     |
| Sterility |                | "                    | "    |                    |                      |                        |                                   | 96.13          |                           |                   |                     |
| Longevity |                | "                    | "    |                    | .52                  |                        |                                   | 96.50          | 11.92                     |                   |                     |
|           | DOUGLAS, ARIZ  |                      |      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                | 4-14                 | 4-20 | 21                 | .58                  | 1.17                   | 1842                              | 94.28          |                           |                   |                     |
| Control   |                | "                    | "    |                    | .45                  | 1.03                   | 1892                              | 95.40          |                           |                   |                     |
| Longevity |                | "                    | "    |                    | 2.67                 |                        |                                   | 93.50          | 21.39                     |                   |                     |
|           | UVALDE         |                      |      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                | 4-14                 | 4-20 | 21                 | .25                  | .31                    | 1843                              | 97.78          |                           |                   |                     |
| Control   |                | "                    | "    |                    | .11                  | .11                    | 1844                              | 97.57          |                           |                   |                     |

| FLY AGILITY |                |                      |                    |                      |                          |                             |                |                           |
|-------------|----------------|----------------------|--------------------|----------------------|--------------------------|-----------------------------|----------------|---------------------------|
|             | <u>Station</u> | <u>Report Period</u> | <u>No. Cartons</u> | <u>% Dead At Rel</u> | <u>% Emerg After Rel</u> | <u>% Not Flying Injured</u> | <u>% Emerg</u> | <u>% of Flyable Flies</u> |
|             | MISSION        |                      |                    |                      |                          |                             |                |                           |
| Flight      |                | <u>4-14 4-20</u>     | <u>2</u>           | <u>1.57</u>          | <u>1.88</u>              | <u>2.20</u>                 | <u>97.37</u>   | <u>94.35</u>              |
|             | DOUGLAS, ARIZ  |                      |                    |                      |                          |                             |                |                           |
| Flight      |                | <u>4-14 4-20</u>     | <u>3</u>           | <u>.55</u>           | <u>.88</u>               | <u>6.10</u>                 | <u>94.95</u>   | <u>92.47</u>              |

MD-1 Rev.  
11-5-73





WEEKLY QUALITY CONTROL DATA - WEEK ENDING April 20, 1974

Flight - Two release cartons from every flight.

Control - Held at station and compared with those flown.

Sterility - Irradiated flies from each cobalt source egged when 6 to 7 days old.

Longevity - After flight from station held at 80° F. with food and water.

|           | <u>Station</u> | <u>Report Period</u> | <u>No. Flights</u> | <u>% Dead At Rel</u> | <u>% Emerg Aft Rel</u> | <u>Live Flies Held Per Carton</u> | <u>% Emerg</u> | <u>% Mort. Aft 7 days</u> | <u>Eggs Layed</u> | <u>Eggs Hatched</u> |
|-----------|----------------|----------------------|--------------------|----------------------|------------------------|-----------------------------------|----------------|---------------------------|-------------------|---------------------|
| C-47      | MISSION        |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                | 4-14 4-20            | 8                  | 1.19                 | .70                    | 1882                              | 96.69          |                           |                   |                     |
| Control   |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Sterility |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Longevity |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
|           | DOUGLAS, ARIZ  |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Control   |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Longevity |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
|           |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Flight    |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |
| Control   |                |                      |                    |                      |                        |                                   |                |                           |                   |                     |

| FLY AGILITY |                |                      |                    |                      |                          |                             |                |                           |  |
|-------------|----------------|----------------------|--------------------|----------------------|--------------------------|-----------------------------|----------------|---------------------------|--|
|             | <u>Station</u> | <u>Report Period</u> | <u>No. Cartons</u> | <u>% Dead At Rel</u> | <u>% Emerg After Rel</u> | <u>% Not Flying Injured</u> | <u>% Emerg</u> | <u>% of Flyable Flies</u> |  |
|             | MISSION        |                      |                    |                      |                          |                             |                |                           |  |
| Flight      |                |                      |                    |                      |                          |                             |                |                           |  |
|             | DOUGLAS, ARIZ  |                      |                    |                      |                          |                             |                |                           |  |
| Flight      |                |                      |                    |                      |                          |                             |                |                           |  |





LARVAE WEIGHT - WEEK ENDING 4-20-74

| <u>Collection Date</u> | <u>Date Weighed</u> | <u>Group</u> | <u>Average Larvae Weight</u> | <u>Standard Deviation</u> |
|------------------------|---------------------|--------------|------------------------------|---------------------------|
| <u>4-13-74</u>         | <u>4-15-74</u>      | <u>A</u>     | <u>62.550</u>                | <u>5.9336</u>             |
| <u>"</u>               | <u>"</u>            | <u>B</u>     | <u>59.2500</u>               | <u>8.8429</u>             |
| <u>"</u>               | <u>"</u>            | <u>B</u>     | <u>58.9000</u>               | <u>6.7504</u>             |
| <u>"</u>               | <u>"</u>            | <u>C</u>     | <u>60.2500</u>               | <u>4.0245</u>             |
| <u>4-17-74</u>         | <u>4-18-74</u>      | <u>A</u>     | <u>60.1000</u>               | <u>5.8750</u>             |
| <u>"</u>               | <u>"</u>            | <u>B</u>     | <u>61.1000</u>               | <u>6.1720</u>             |
| <u>"</u>               | <u>"</u>            | <u>C</u>     | <u>57.4000</u>               | <u>5.5478</u>             |
| <u> </u>               | <u> </u>            | <u> </u>     | <u> </u>                     | <u> </u>                  |
| <u> </u>               | <u> </u>            | <u> </u>     | <u> </u>                     | <u> </u>                  |
| <u> </u>               | <u> </u>            | <u> </u>     | <u> </u>                     | <u> </u>                  |
| <u> </u>               | <u> </u>            | <u> </u>     | <u> </u>                     | <u> </u>                  |
| <u> </u>               | <u> </u>            | <u> </u>     | <u> </u>                     | <u> </u>                  |





UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

VETERINARY SERVICES  
SCREWORM ERADICATION PROGRAM

POST OFFICE BOX 969  
MISSION, TEXAS 78572

April 23, 1974

Subject: Weekly Activity Report April 14 - 20, 1974

To: Dr. M. E. Meadows  
Veterinarian in Charge  
Animal Health

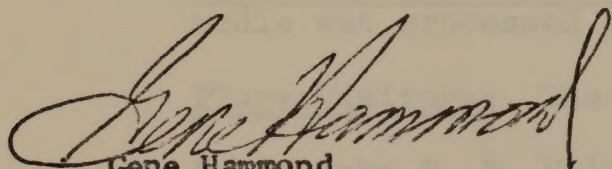
The Aircraft Maintenance Section performed routine maintenance and services on DC-3, Beechcraft, C-54, and Comanche Aircraft. Pilot Discrepancies were taken care of on a daily basis.

We completed 100 Hour Inspection on Beechcraft N-2814-J, N-87690, N-9656 and N-9658.

We are working on Jack Point Repair on Beechcraft N-9658.

We are working on 100 Hour Inspection on Beechcraft N-2810-J, N-4213-A, N-87688 and N-87689.

We are working on 100 Hour Inspection and modification as time permits on N-710-Z and N-93043.



Gene Hammond  
Equipment & Facilities Manager  
Aircraft Maintenance





UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

VETERINARY SERVICES  
SCREWORM ERADICATION PROGRAM  
POST OFFICE BOX 969  
MISSION, TEXAS 78572

Subject: Activities Report  
April 14 - 20, 1974

April 23, 1974

To: Dr. M. E. Meadows  
Veterinarian in Charge  
Animal Health

Fly Colony: Egg production was satisfactory with sufficient eggs harvested on all shifts.

Larval Rearing - Pupae Harvested: Larval size for the past week averaged 60.4 mg. Pupae production continues above 200 million, with 26,327 liters harvested for the week. This was slightly less than the previous week but the difference was not significant.

There was some fluctuation in temperature of from 75 to 80° F in the pupae holding room from "C" shift of April 20 to "A" shift of April 22. At present it is operating satisfactory.

Spent Media Treatment: Approximately 187,000 gallons of spent media was processed without difficulty.

Plant Visitors: The following visitors were given plant tours:

4/17 John D. P. Vols, McAllen Chamber of Commerce, McAllen  
4/17 George Hurren, Facultad of Medicina, Vera Cruz, Mexico  
and 16 students  
4/17 William J. Schroeder, ARS, Honolulu, Hawaii  
4/15 Harold Brown, Weslaco, Tex  
4/19 R. A. Leopold, ARS, Fargo, N. D.  
4/20 12 Science Students, Lincoln High School, McAllen, Texas

Nutrients Used in Production 4/14/74 - 4/20/74:

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANNUAL AND PLANT HEALTH INSPECTION SERVICE

WASHINGTON, D. C.  
MAY 11 - 1919

MAY 11 1919

RECEIVED  
MAY 11 - 1919

TO: Mr. H. E. Henshaw  
Director in Charge  
Plant Health

The following is a list of the plants which are being inspected in the State of California.

1. Almonds - These are being inspected in the State of California. The following is a list of the almonds which are being inspected in the State of California.

2. Apples - These are being inspected in the State of California. The following is a list of the apples which are being inspected in the State of California.

3. Berries - These are being inspected in the State of California. The following is a list of the berries which are being inspected in the State of California.

4. Cherries - These are being inspected in the State of California. The following is a list of the cherries which are being inspected in the State of California.

5. Citrus - These are being inspected in the State of California. The following is a list of the citrus which are being inspected in the State of California.

6. Grapes - These are being inspected in the State of California. The following is a list of the grapes which are being inspected in the State of California.

7. Oranges - These are being inspected in the State of California. The following is a list of the oranges which are being inspected in the State of California.

8. Pears - These are being inspected in the State of California. The following is a list of the pears which are being inspected in the State of California.

9. Plums - These are being inspected in the State of California. The following is a list of the plums which are being inspected in the State of California.

10. Strawberries - These are being inspected in the State of California. The following is a list of the strawberries which are being inspected in the State of California.



|                        |         |
|------------------------|---------|
| No. lbs nutria         | 251,250 |
| No. lbs cottage cheese | 1,491   |
| No. lbs powdered egg   | 3,006   |
| No. lbs powdered milk  | 3,992   |
| No. lbs dried blood    | 11,655  |
| Total                  | 271,448 |

|                  |       |
|------------------|-------|
| No. drums honey  | 4     |
| No. bags sawdust | 72    |
| No. lbs cotton   | 3,819 |

Plant Meat Inventory COB 4/20/74:

|                   |         |
|-------------------|---------|
| No. lbs nutria    | 192,000 |
| No. lbs horsemeat | 600     |

Plant Entries:

|                |     |         |          |          |
|----------------|-----|---------|----------|----------|
| Graham, A. J.  | Tue | 4/16/74 | 10:53 AM | 1:00 PM  |
|                | Wed | 4/17/74 | 2:38 PM  | 4:11 PM  |
|                | Thu | 4/18/74 | 2:25 PM  | 4:01 PM  |
|                | Fri | 4/19/74 | 12:08 PM | 3:35 PM  |
| Nichols, P. R. | Tue | 4/16/74 | 3:16 PM  | 4:50 PM  |
|                | Thu | 4/18/74 | 1:47 PM  | 4:00 PM  |
|                | Fri | 4/19/74 | 1:29 PM  | 3:35 PM  |
| Wilson, D. D.  | Mon | 4/15/74 | 10:55 AM | 4:11 PM  |
|                | Tue | 4/16/74 | 3:55 PM  | 12:10 AM |
|                | Wed | 4/17/74 | 4:07 PM  | 12:01 AM |
|                | Thu | 4/18/74 | 3:45 PM  | 11:34 PM |
|                | Fri | 4/19/74 | 10:09 AM | 4:46 PM  |
| Bruce, J. C.   | Mon | 4/15/74 | 10:47 AM | 4:08 PM  |
|                | Tue | 4/16/74 | 11:44 PM | 7:06 AM  |
|                | Wed | 4/17/74 | 11:11 PM | 7:10 AM  |
|                | Thu | 4/18/74 | 11:30 PM | 7:33 AM  |
|                | Fri | 4/19/74 | 12:02 AM | 7:26 AM  |

*A. J. Graham*  
A. J. Graham

Acting Entomologist in Charge  
Fly Production Section  
Animal Health





UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

VETERINARY SERVICES  
SCREWORM ERADICATION PROGRAM  
POST OFFICE BOX 969  
MISSION, TEXAS 78572

Subject: Weekly Activity Report  
April 14 - April 20, 1974

April 24, 1974

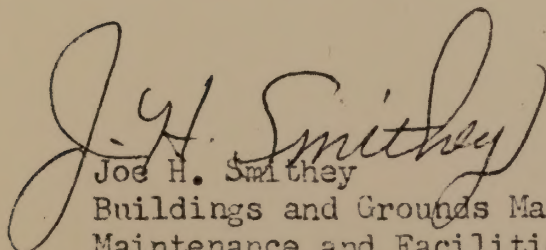
To: Dr. M. E. Meadows, Jr.  
Area Veterinarian in Charge  
Animal Health

Upon returning from READEO duty in El Paso, Texas last week, I found things in good condition. We are having some personnel transferring and two foremen retiring. Lloyd Tabor, Maintenance and Operations General Foreman is retiring on May 15, 1974 and Victor Soens, Maintenance and Operations Foreman, is retiring soon thereafter. I personally regret that these two fine men are going, but wish them well in whatever future endeavor they enter into.

Michael Pettit, General Machinist, is transferring to U. S. Army Depot at Texarkana, Texas and Ashley Sperling, Welder, is contemplating a transfer to the same location. I wish them well.

We have received permission from our Minneapolis office to construct the addition required for the installation of the two centrifuges we are to test for the Mexico Program. With our high production and shortage of personnel it is hard to estimate when we can have this equipment ready for the test. We intend to do the very best we can.

Mr. Fossum was furnished the required information for purchase of a rotary type incinerator earlier this week. He has informed me that our Hyattsville engineering personnel are taking over the purchase of this equipment. I have no idea when we can expect this to be ready for us. As the necessary information arrives, I will keep you posted.

  
Joe H. Smith  
Buildings and Grounds Manager  
Maintenance and Facilities  
Animal Health

